



# FXR/VFXR Renewable Series

A-Series 60Hz/120V Grid/Hybrid Inverter/Chargers



Sealed FXR

Vented VFXR

- Single-phase, 120V sinewave output in 12V, 24V or 48V versions
- 2000W, 2500W and 3000W sealed models
- 2800W, 3500W and 3600W vented models
- Intelligent battery charging
- Programmable for seven different modes, with generator assist
- Modular, stackable design up to nine inverter/chargers for three-phase and 10 inverter/chargers in grid-tied
- High operating efficiency at 93%
- Corrosion resistant internal components
- Field upgradable software
- Power factor corrected battery charging
- Standard 5 year warranty, optional 10 year warranty



The latest, most advanced features on the industry's most trusted and proven platform—that's the essence of OutBack's new FXR Series of Grid/Hybrid inverter/chargers. Capable of off-grid or grid-connected operation in a single model, the FXR Grid/Hybrid inverter/chargers provide system designers with unprecedented flexibility and compatibility for nearly any power conversion scenario.

#### The new FXR features and technologies on the acclaimed FX platform include:

- Both off-grid and grid-tied functionality in one unit
- Seven programmable modes, including GridZero and Support Mode, and built-in networked communications
- Advanced Battery Charging (ABC) with expanded charging voltages and time parameters, enabling system designers to accommodate the specific charging profiles and algorithms of new and emerging energy storage technologies including Lithium Ion, Aqueous Ion and Flow chemistry batteries
- Easy system upgradability in the field

FXR inverter/chargers can be paired with a MATE3 to add OPTICS RE to monitor and control system performance from any location. Available in power ranges from 2000W-3600W, multiple units may be stacked and connected with other OutBack Power electronics for more seamless system integration and the ability to function in a wide variety of applications, and system sizes. Up to nine inverters can be combined in a 3-phase system with the 12V, 24V or 48V models, and up to 36kW in a grid-tied 24V or 48V system. The exclusive modular system architecture means that increased power output is just an additional FXR inverter/charger away.

Available in sealed or vented units with NEMA type 1 die-cast aluminum chassis designed to operate in the harshest environmental conditions such as high temperatures, humidity or corrosive salt air, the FXR's continue in OutBack's tradition of absolute dependability in mission-critical installations no matter how harsh or challenging the conditions.



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Models:	Sealed			Vented		
	FXR2012A	FXR2524A	FXR3048A	VFXR2812A	VFXR3524A	VFXR3648A
<b>Continuous Power Rating (@ 25° C)</b>	2000VA	2500VA	3000VA	2800VA	3500 VA	3600 VA
<b>AC Output Voltage (selectable)</b>	120VAC (100-130VAC)	120VAC (100-130VAC)	120VAC (100-130VAC)	120VAC (100-130VAC)	120VAC (100-130VAC)	120VAC (100-130VAC)
<b>AC Output Frequency (selectable)</b>	60Hz (50Hz)	60Hz (50Hz)	60Hz (50Hz)	60Hz (50Hz)	60Hz (50Hz)	60Hz (50Hz)
<b>Nominal DC Input Voltage</b>	12VDC	24VDC	48VDC	12VDC	24VDC	48VDC
<b>Continuous AC RMS Output (@ 25° C)</b>	16.7AAC	20.8AAC	25AAC	23.3AAC	29.2AAC	30AAC
<b>Idle Power</b>	Full: ~34W Search: ~9W Off: ~3W	Full: ~34W Search: ~9W Off: ~3W	Full: ~34W Search: ~9W Off: ~3W	Full: ~34W Search: ~9W Off: ~3W	Full: ~34W Search: ~9W Off: ~3W	Full: ~34W Search: ~9W Off: ~3W
<b>Typical Efficiency</b>	90%	92%	93%	90%	92%	93%
<b>CEC Weighted Efficiency</b>	—	—	91%	—	90.5%	91%
<b>Peak Efficiency</b>	—	—	—	—	—	95%
<b>Total Harmonic Distortion</b>	Typical: < 2% Maximum: < 5%	Typical: < 2% Maximum: < 5%	Typical: < 2% Maximum: < 5%	Typical: < 2% Maximum: < 5%	Typical: < 2% Maximum: < 5%	Typical: < 2% Maximum: < 5%
<b>Output Voltage Regulation</b>	± 2.5%	± 2.5%	± 2.5%	± 2.5%	± 2.5%	± 2.5%
<b>Maximum Output Current</b>	Peak: 56AAC RMS: 40AAC	Peak: 70AAC RMS: 50AAC	Peak: 70AAC RMS: 50AAC	Peak: 56AAC RMS: 40AAC	Peak: 70AAC RMS: 50AAC	Peak: 70AAC RMS: 50AAC
<b>AC Overload Capability</b>	Surge: 4800VA 5 Sec: 4500VA 30 Min: 2500VA	Surge: 6000VA 5 Sec: 5400VA 30 Min: 3200VA	Surge: 6000VA 5 Sec: 5400VA 30 Min: 3200VA	Surge: 4800VA 5 Sec: 4500VA 30 Min: 3200VA	Surge: 6000VA 5 Sec: 5400VA 30 Min: 4000VA	Surge: 6000VA 5 Sec: 5400VA 30 Min: 4000VA
<b>AC Input Voltage Range (MATE3 Adjustable)</b>	85 to 140VAC	85 to 140VAC	85 to 140VAC	85 to 140VAC	85 to 140VAC	85 to 140VAC
<b>AC Input Frequency Range</b>	54 to 66Hz (45 to 55Hz)	54 to 66Hz (45 to 55Hz)	54 to 66Hz (45 to 55Hz)	54 to 66Hz (45 to 55Hz)	54 to 66Hz (45 to 55Hz)	54 to 66Hz (45 to 55Hz)
<b>AC Input Tare Loss</b>	0 VA	0 VA	0 VA	0 VA	0 VA	0 VA
<b>Grid-Interactive Voltage Range</b>	—	106 to 132VAC	106 to 132VAC	—	106 to 132VAC	106 to 132VAC
<b>Grid-Interactive Frequency Range</b>	—	59.3 to 60.5Hz	59.3 to 60.5Hz	—	59.3 to 60.5Hz	59.3 to 60.5Hz
<b>AC Input Current Maximum</b>	60AAC	60AAC	60AAC	60AAC	60AAC	60AAC
<b>Continuous Battery Charge Output</b>	100ADC	55ADC	35ADC	125ADC	82ADC	45ADC
<b>Maximum Battery Charging (AC/DC/Power)</b>	14AAC / 100ADC / 1360VA	14AAC / 55ADC / 1500VA	14AAC / 35ADC / 1900VA	18AAC / 125ADC / 1700VA	20AAC / 82ADC / 2230VA	20AAC / 45ADC / 2450VA
<b>DC Input Voltage Range</b>	10.5 to 17VDC	21 to 34VDC	42 to 68VDC	10.5 to 17VDC	21 to 34VDC	42 to 68VDC
<b>Warranty</b>	Standard 5-yr / optional 10-yr	Standard 5-yr / optional 10-yr	Standard 5-yr / optional 10-yr	Standard 5-yr / optional 10-yr	Standard 5-yr / optional 10-yr	Standard 5-yr / optional 10-yr
<b>Weight (lb/kg)</b>	Unit: 62 / 29 Shipping: 67 / 30	Unit: 62 / 29 Shipping: 67 / 30	Unit: 62 / 29 Shipping: 67 / 30	Unit: 61 / 28 Shipping: 67 / 30	Unit: 61 / 28 Shipping: 67 / 30	Unit: 61 / 28 Shipping: 67 / 30
<b>Dimensions H x W x L (in/cm)</b>	Unit: 13 x 8.25 x 16.25 / 33 x 21 x 41    Shipping: 21.75 x 13 x 22 / 55 x 33 x 56			Unit: 12 x 8.25 x 16.25 / 30 x 21 x 41    Shipping: 21.75 x 13 x 22 / 55 x 33 x 56		
<b>Temperature range</b>	Rated: -20 to 50°C Operating: -40 to 60°C Storage: -40 to 60°C	Rated: -20 to 50°C Operating: -40 to 60°C Storage: -40 to 60°C	Rated: -20 to 50°C Operating: -40 to 60°C Storage: -40 to 60°C	Rated: -20 to 50°C Operating: -40 to 60°C Storage: -40 to 60°C	Rated: -20 to 50°C Operating: -40 to 60°C Storage: -40 to 60°C	Rated: -20 to 50°C Operating: -40 to 60°C Storage: -40 to 60°C
<b>Relative Humidity rating</b>	93%	93%	93%	93%	93%	93%
<b>Listings/certifications</b>	UL 1741, CSA C22.2 No. 107.1, UL 1778 Annex FF	UL 1741, CSA C22.2 No. 107.1, UL 1778 Annex F	UL 1741, CSA C22.2 No. 107.1, UL 1778 Annex FF	UL 1741, CSA C22.2 No. 107.1, UL 1778 Annex FF	UL 1741, CSA C22.2 No. 107.1, UL 1778 Annex FF	UL 1741, CSA C22.2 No. 107.1, UL 1778 Annex FF
<b>RoHS Compliance</b>	Yes	Yes	Yes	Yes	Yes	Yes